

## I CLAIM:

1           1. A sleeve heater comprising:  
2            an electrical and generally cylindrical heater coil  
3   centered on an axis and shaped to fit over a part to be heated;  
4            a radially compressible and generally cylindrical inner  
5   sleeve snugly coaxially surrounding the heater coil; and  
6            a radially generally inextensible and generally  
7   cylindrical outer sleeve fitted coaxially over the inner sleeve  
8   and having an inner surface bearing tightly radially inward on  
9   the inner sleeve and radially compressing the inner sleeve and  
10   the coil inward.

1           2. The electrical sleeve heater defined in claim 1  
2   wherein the inner sleeve is formed with at least one axially open  
3   and extending slot.

1           3. The electrical sleeve heater defined in claim 1  
2   wherein the inner sleeve is formed with two axially extending and  
3   axially oppositely open slots.

1           4. The electrical sleeve heater defined in claim 3  
2 wherein the slots are angularly equispaced.

1           5. The electrical sleeve heater defined in claim 1  
2 wherein the inner sleeve has an axially outwardly flared outer  
3 surface engageable with an end of the outer sleeve.

1           6. The electrical sleeve heater defined in claim 5  
2 wherein the outer surface is about 10 mm long.

1           7. The electrical sleeve heater defined in claim 1  
2 wherein the outer sleeve has an axially tapered inner surface  
3 axially engageable with an end of the inner sleeve.

1           8. The electrical sleeve heater defined in claim 7  
2 wherein the tapered inner surface is about 10 mm long.

1           9. The electrical sleeve heater defined in claim 1  
2 wherein the inner sleeve has an end formed with a radially  
3 inwardly projecting rim.

1           10. The electrical sleeve heater defined in claim 1  
2 wherein the outer sleeve has a radially inwardly projecting rim.

1           11. The electrical sleeve heater defined in claim 1  
2 wherein the inner sleeve has an axially outwardly projecting tab  
3 and the outer sleeve is formed with a cutout in which the tab  
4 fits when the sleeves are fitted together.

1           12. The electrical sleeve heater defined in claim 1  
2 wherein the inner sleeve is formed with a radially throughgoing  
3 holes, the coil having ends extending through the hole.

1           13. The electrical sleeve heater defined in claim 1  
2 wherein both sleeves are of metal.

1           14. The electrical sleeve heater defined in claim 1  
2 wherein the inner sleeve has an outside diameter and the outer  
3 sleeve has an inside diameter that is smaller than the inner-  
4 sleeve outside diameter, whereby when the outer sleeve is fitted  
5 over the inner sleeve it radially compresses the inner sleeve.